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third Reservoir IKKL, with its Out-let X, are included in a Box YYYY. Into this Box at λ enters a Funnel $\Gamma\Lambda\Gamma$ divided within the Box into two Pipes, viz. λO , which serves for a Feeding-Stream to the great Reservoir, and λW , which serves for a constant Stream to the third Reservoir. A Stream of Water being let into the Funnel $\Gamma\Lambda\Gamma$, will discharge itself like such an intermitting Reciprocating Fountain at X, where there is a Basin YZZZ without the Box to receive it; with an Out-let α , and a Diagonal Gage ZY, to mark the Rise and Fall of the Water in the Basin.

III. *Immersiones, atque Emerfiones Satellitum Jovis Observatae Pekini a P. P. Ignatio Kegler, & Andrea Pereira, Soc. JESU, a mense Novem. 1730, ad Rev^d. P. Johannem Baptistam Carbone, Soc. JESU, R. S. S. transmissæ; et ex ejusdem Cl. Viri Epistolâ ad Jacobum de Castro Sarmiento, M. D. Col. Medic. Lond. L. & R. S. S. excerptæ.*

SATELL. I.

1730	Nov.	3 ^d	18 ^h	00'	p. m.
Immersiones		12	14	20	
		19	16	12	
		26	18	3	
	Dec.	5	14	22	54 ¹¹
		12	16	11	30
		19	18	00	45

Dec.

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1730	Immerfiones	Dec.	21 ^d	12 ^h	28'	40''
			28	14	18	10
1731		Jan.	4	16	8	45
			6	10	35	20
			11	17	59	30
			13	12	27	10
			20	14	17	30
			27	16	10	12
		Feb.	3	18	2	36
			12	14	25	dub.
			14	8	54	20
		Mar.	2	9	30	
			9	11	27	40
			16	13	23	30
			18	7	52	40
		Apr.	1	11	45	20
			3	6	15	
	Emerfiones		17	10	8	40
			24	12	4	30
		Mai.	3	8	29	50

SATELL. II.

1730	Immerfiones	Nov.	25	16	5	30
		Dec.	2	18	37	dub.
			20	12	49	45
			27	15	21	5
1731		Jan.	3	17	49	50
			14	9	30	45
			28	14	37	30
		Feb.	4	17	10	
			15	8	59	

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1731	Emerf.	{	Mar. 19 ^d	11 ^h	29'	20''
		{	Apr. 13	8	35	
			20	11	16	

SATELL. III.

1730	Immer.	Nov. 21	16	16	30
	Emer.	Dec. 20	11	27	50
	Immer.	27	11	49	30
	Emer.		15	21	17
1731	Immer.	Jan. 3	15	43	15
	Emer.		19	16	dub.
	Immer.	Feb. 8	11	25	30
	Immer.	15	15	23	
	Emer.	Mar. 9	6	50	30
	Emer.	16	10	50	50
	Emer.	23	14	51	30
	Emer.	Apr. 21	6	56	20
	Immer.	28	7	28	30
	Emer.		10	55	30
	Immer.	Mai. 5	11	30	30

SATELL. IV.

1730	Immer.	Dec. 20	18	50	45
1731	Immer.	Jan. 6	12	38	12
	Emer.		17	6	45
	Emer.	23	10	54	
	Immer.	Mar. 31	6	inter 30' & 35'	
	Emer.		10	43	40

Die 14 Nov. 1730 circa hor. 4. p. m. Luna obtexit Martem. Immersio, claro adhuc die, videri non potuit : observata tamen est Emerfio, quæ accidit hor. 4. 54' proximè Furnerium. Die

Die 17 *Jan.* 1731, Observatus est transitus Lunæ per Pleiadas, ut sequitur.

H.	'	"	<i>p. M.</i>
10	9	40	Immerfit Electra in recta per Platonem, & Eudoxum.
10	32	52	Immerfit Merope ——— Copern. & Messallam.
10	38	15	Emersit Electra ——— Thaletem, & Eudoxum.
11	23	52	Immerfit præcedens lucidam Pleiadum (triplex Stellula) in recta per Eratosth. & S. Cyrillum.
11	26	5	Immerfit lucida, seu Alcyone, Copern. & S. Cathar.
11	47	32	Emersit Merope in recta per Tarunt. & S. Theophil.
12	1	10	Immerfit lucidior ex parvis ad Austrum Atlantis, in recta per Sulliald, & Cenforinum.
12	12	12	Immerfit Atlas in recta per Copern. & Jul. Cæsar.
12	13	57	Emersit Alcyone in recta per Marginem Orient. Possid. & Menelaum.
12	25	3	Immerfit Pleione in recta per Copern. & Ptolomeum.

1731, Die 14 *Mart.* α occultavit Stellam x in ☿ Immerfio accidit H. 8, 41' 50" *p. M.* in recta per Tatum, & Langrenum. Emersit H. 9, 51' a Firmico modicè ad Austrum.

Die 20 *Mart.* α occultavit Stellam π in ♏. Immersio fuit H. 11, 13' *p. M.* in recta per Merfenum, & Bullialdum. Emerfio H. 12, 31' è regione Firmici.

Die 16 *April.* α occultavit Stellam ο, in ♏. Immersio fuit H. 8, 46' 30'' *p. M.* in recta per Bulliald. & Cenforin. Emerfio H. 10, 5' 45'' in recta per Taruntium, & Menelaum.

Eclipsis α Die 29 *Julij*, 1730, *Pekini* ob densè nubilatum Cœlum non potuit observari. Eam tamen observavit *P. Phil. Jac. Simonelli* in urbe *Chamxo* in provinciæ *Nankinensis*, quæ *Pekino* ad ortum distat paulò plus 4 grad. Æquat. id est, 16 vel 17 min. temp. Initium Eclipsis ibi fuit H. 10, 55' *p. M.* & finis H. 12, 49', cum maxima obscuratione digitorum sinicorum 3, 10'. Itaque medium Eclipsis illic accidit H. 11, 52', quod pro *Pekino* calculus dabat H. 11, 36', cum differentia 16' satis justa.

Eandem Eclipsim in Regia *Cochinchinæ* observavit *P. Franciscus de Lima*. Initium annotavit H. 9, 58' *p. M.* & finem H. 11, 50', adeoque medium ibi erat H. 10, 54', unde exurgit differentia ejus Meridiani à *Pekino* ad Occid. 42'. temp. id est, 10° 30' Æquat.